Meso Scale Discovery® Whole Cell Lysate Set
Phospho-Akt (Ser 473)

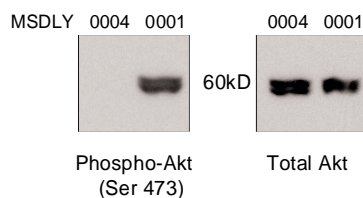| Catalog No:	C11CA-1
Contents:	2 x 100 µg MSDLY0004 pAkt Negative Control Cell Lysate Cell lysate from growing Jurkat cells treated with 50 µM LY294002 for 2.5 hours to inhibit Akt phosphorylation
	2 x 100 µg MSDLY0001 pAkt Positive Control Cell Lysate Cell lysate from growing Jurkat cells
Concentration:	2 mg/mL in MSD® Complete Tris Lysis Buffer
Volume:	2 vials (50 µL) negative lysate 2 vials (50 µL) positive lysate
Preparation:	Following cell treatment, Jurkat cell lysates were prepared on ice in MSD Complete Tris Lysis Buffer. Cell debris was cleared by centrifugation.
Storage:	Lysates should be stored at -80°C. Lysates will retain approximately 90% of activity after a single round of freeze thaw if handled properly (thawed on ice and immediately refrozen in smaller aliquots).
Quality Control:	Lysates have been tested for performance in Western Blot and MSD Assays.

MSD MULTI-SPOT® Assay Results

Figures A and B (below) illustrate typical titrations for MSDLY0004 (pAkt negative) and MSDLY0001 (pAkt positive) cell lysates. Figure A depicts the MSD MULTI-ARRAY® Phospho-Akt (Ser 473) Assay; Figure B depicts the MSD MULTI-SPOT Phospho (Ser 473)/ Total Akt Assay. The results are presented as a ratio of the signals obtained with pAkt positive and pAkt negative lysates. In both assays, the phospho-Akt signal ratios increase with the amount of lysates. The signal ratios for total Akt in the Phospho/Total Akt Assay remain at a constant level close to one throughout the titration. The representative results shown below are for demonstration purposes only and individual results may vary depending upon experimental application.

MSD MULTI-ARRAY Phospho-Akt (Ser 473) Assay — A) Phospho-Akt

MSD MULTI-SPOT Phospho (Ser 473)/Total Akt Assay — B) Phospho-Akt, Total Akt
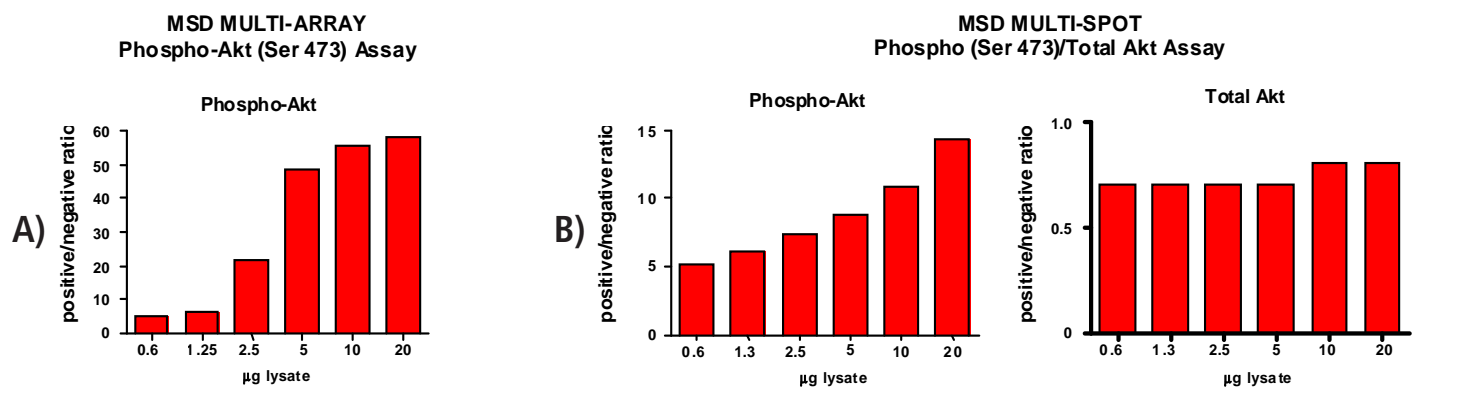
Traditional Western Blot Results

MSDLY0004 and MSDLY0001 whole cell lysates (20 µg each) were analyzed by Western Blot with Phospho (Ser 473)-specific and Total Akt antibodies.

MSDLY 0004 0001   0004 0001   60kD

Phospho-Akt (Ser 473)   Total Akt

Meso Scale Discovery